

ABSTRACT.

In a power-assisted steering system or power steering system having an electric motor, which drives a worm gear mechanism that has a composite gear wheel in the form of a worm wheel, the worm wheel includes a ring gear connectible to a hub via a first disk, and an annular projection of the first disk axially engages with the ring gear.

In order to improve the centering of the component parts of the composite gear wheel in the tangential direction, and in order to render the power transmission in the gear wheel uniform, the annular projection on the first disk is provided with one or more depressions in the axial direction to form tooth-like projections, which form a drive-type toothed section and engage with depressions on an axial side face of the ring gear.